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PHOTOGRAPHIC INTERPRETATION REPORT

MISSILE - ASSOCIATED INTERFEROMETER INSTRUMENTATION SITES USSR

NPIC/R-1033/62

August 1962

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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	As shown in Table 1*, the 15	sites have 1	many similar	rities bot	h in the
	size and amount of equipment in		rometerarea	a and in the	numbér `
•	and type of buildings in the sup	port area.			
-	Probably because of their				•
	SSATC have more buildings th				•
	result of the greater need for p		· -	t because of	a fund-
Г	tional difference in the interfe	erometers ti	lemserves.		
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SSATC SITES

Only those instrumentation sites at the SSATC that contain an interferometer are covered in this report.

Instrumentation Site 1. Instrumentation Site 1 (Figures 1 and 2) is located on the west shore of Lake Balkhash. Unlike the other interferometers at the SSATC, this site is not in the vicinity of the impact area. The crossarms are situated on an earth mound 640 feet square. The circular road apparently is elevated to a constant height. This site is characterized by additional equipment not found at any other instrumentation sites. As shown on Figure 2, the site has four single rhombic antennas (oriented toward Moscow) and a circular concrete pad with several vehicles on it. The pad with the vehicles appears to be additional instrumentation and may be required by a functional difference between this site and the other sites at the SSATC. Site 1 most closely resembles the Khutor site, which may also have rhombic antennas in the vicinity and is definitely situated near a KRUG site.

Instrumentation Site 4. Instrumentation Site 4 is visible on photography of excellent quality, although one portion of the interferometer is obscured by clouds (Figures 3 and 4). The crossarm pattern appears to be leveled earth which has been built up several feet above ground level. The circular road also appears to be built up to a constant height. The site is characterized by a group of five ''Radar As''. Adjacent to these ''Radar As'' is a building with a flat roof (item 3, Figure 4) which has approximately 24 vents or skylights.

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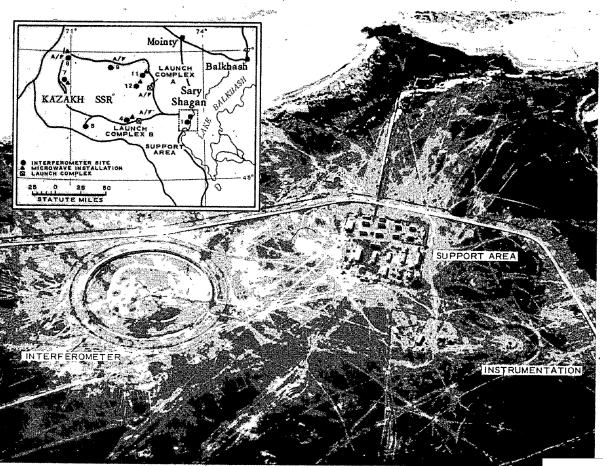
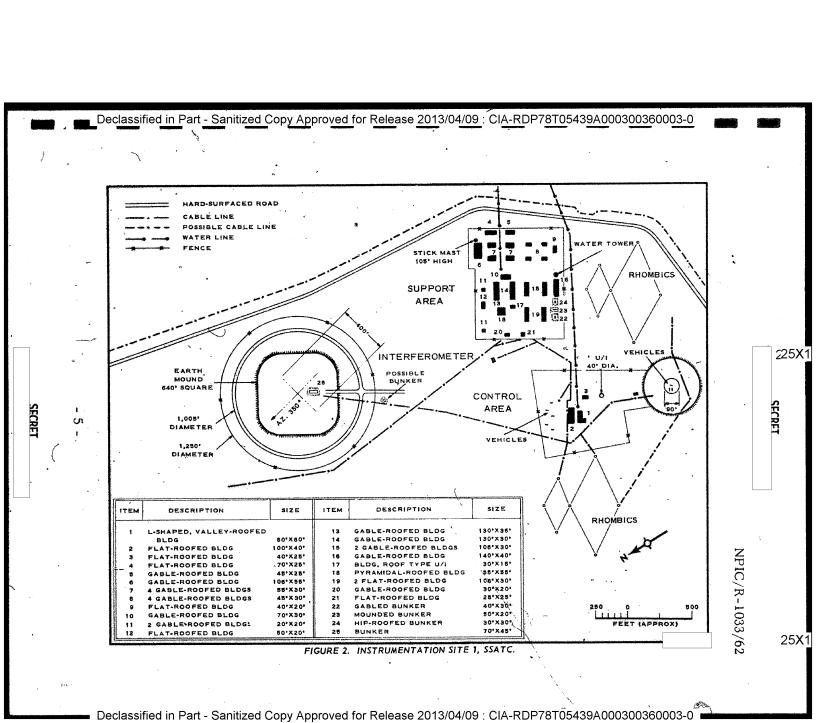
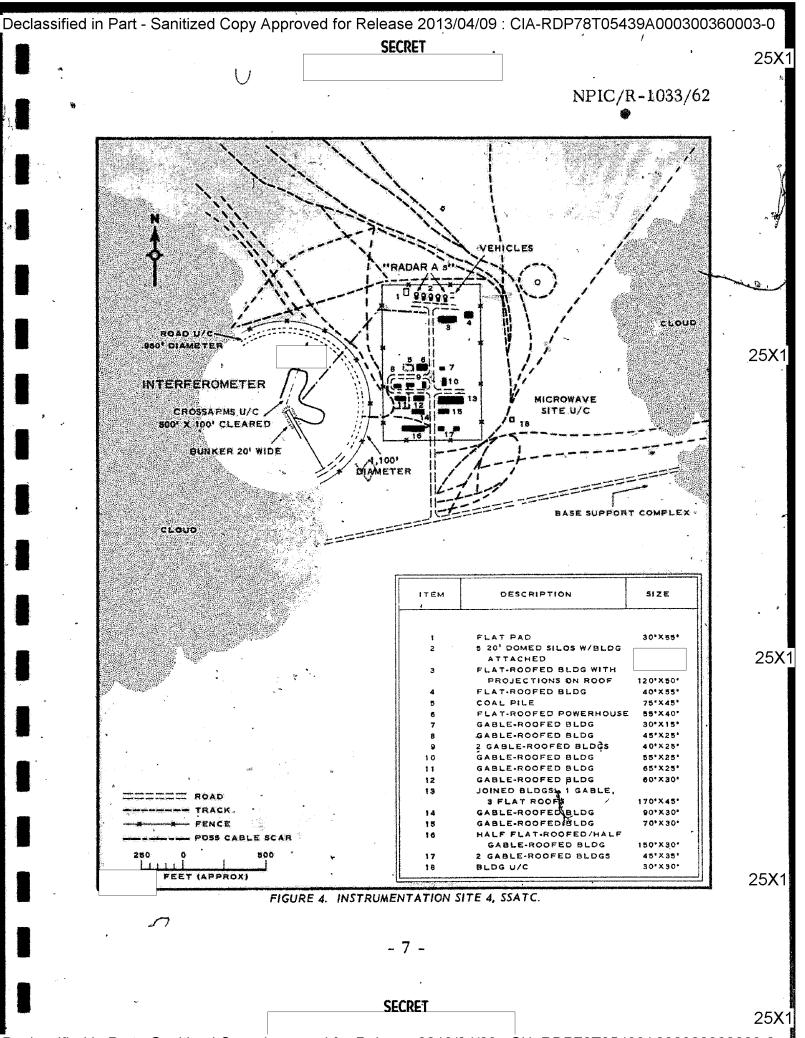


FIGURE 1. INSTRUMENTATION SITE 1, SSATC

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Declassified in Part - Sanitized Copy Approved for Release 2013/04/09 : CIA-RDP78T05439A000300360003-0 **SECRET** 25X1 NPIC/R-1033/62 Mointy Balkhash KAZAKH SSR INTERFEROMETER 25X1 25X1 FIGURE 3. INSTRUMENTATION SITE 4, SSATC SECRET



Declassified in Part - Sanitized Copy Approved for Release 2013/04/09 : CIA-RDP78T05439A000300360003-0

Declassified in Part - Sanitized Copy Approved for Release 2013/04/09 : CIA-RDP78T05439A000300360003-0 **SECRET** NPIC/R-1033/62 Mointy KAZAKH SSR 25 , 50 INTERFEROMETER 25X1 FIGURE 5. INSTRUMENTATION SITE 5, SSATC

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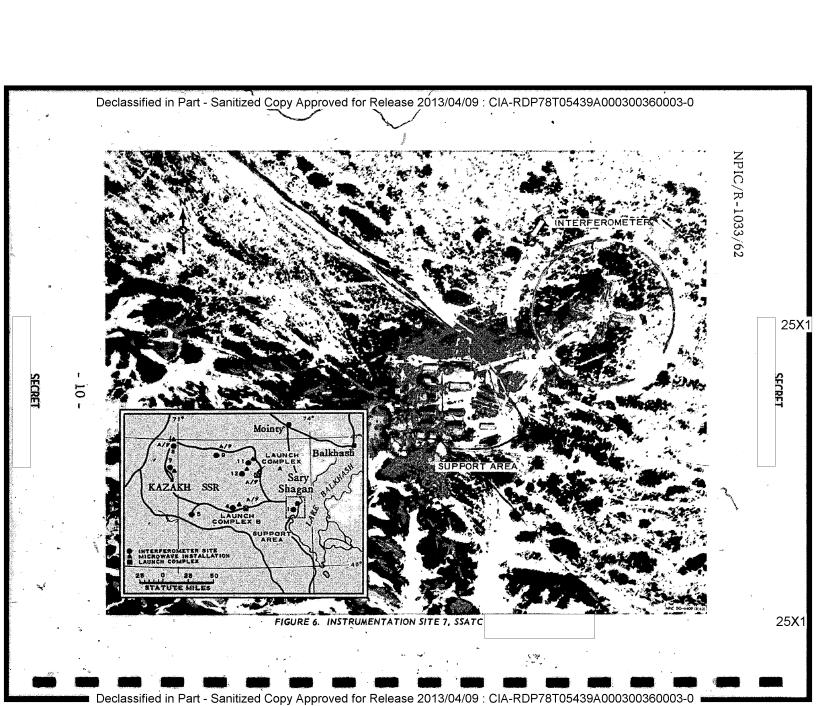
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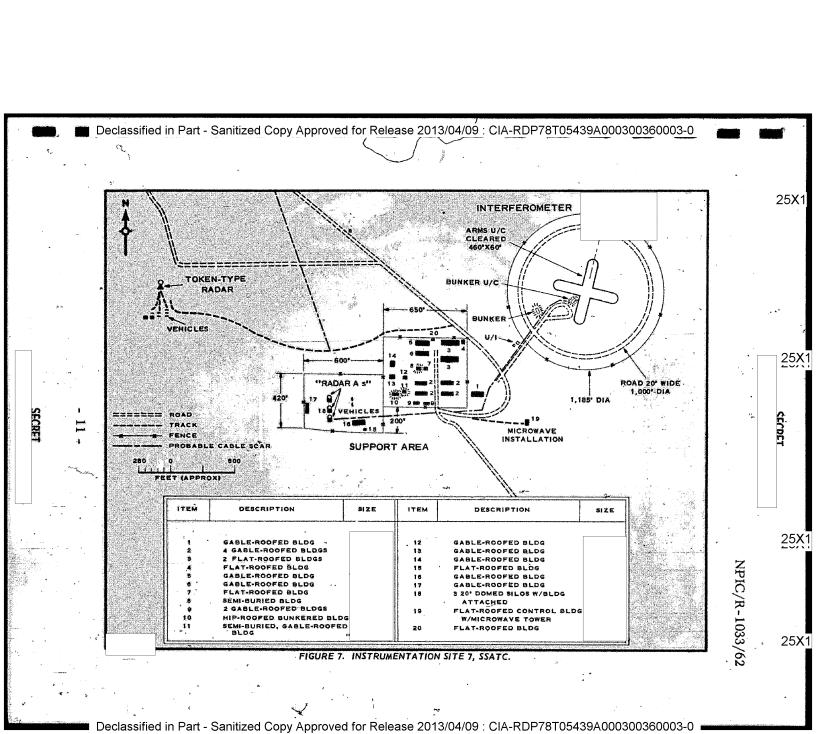
Instrumentation Site 5. Instrumentation Site 5 appears on heavily clouded, far-oblique photography which shows only the interferometer (Figure 5). The site has a circumferential road and a road leading into the probable central control bunker. It cannot be determined whether the cleared area is fenced.

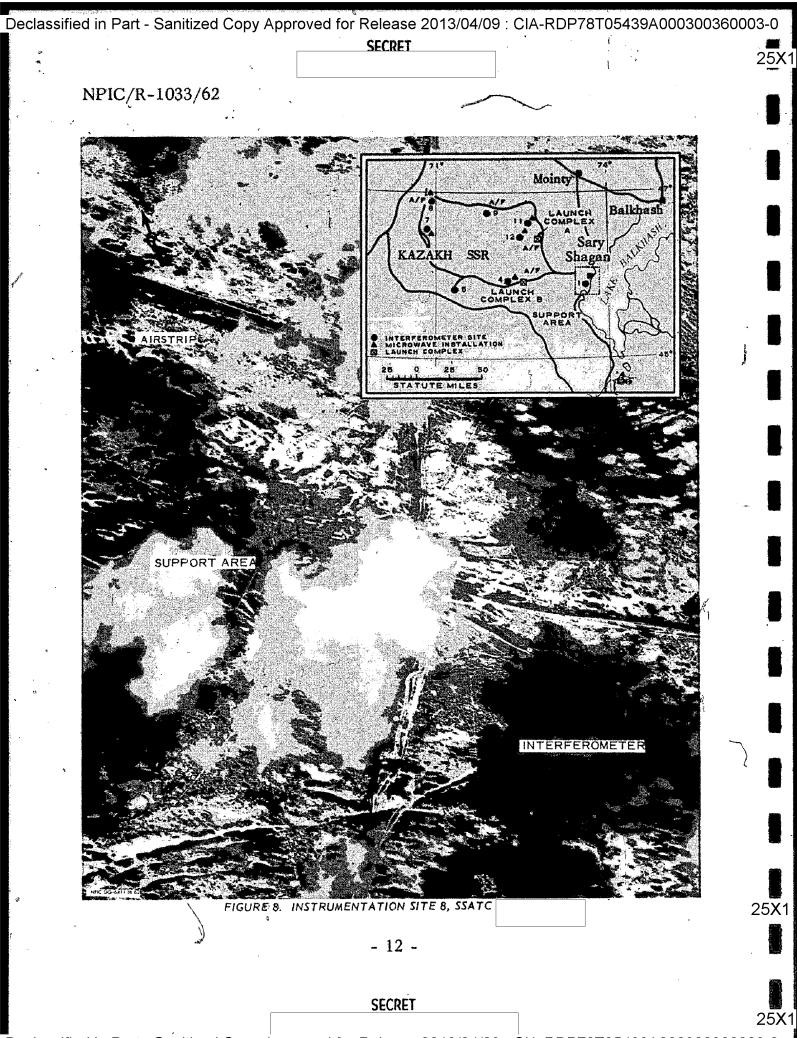
Instrumentation Site 7. Excellent, cloud-free photography allows a detailed interpretation of Instrumentation Site 7 (Figures 6 and 7). A large amount of scarring is discernible in the vicinity of the interferometer, but no instruments can be seen on the crossarms. As at Site 4, the crossarm pattern is on leveled earth, and the circular road appears to be elevated to a constant height. Most of the scarring on the crossarms extends approximately 200 feet from the center of the interferometer. The site has three "Radar As". A possible cable scar connects the inner bunker of the interferometer to the "Radar As". The site also has a Token-type radar with associated vehicles and a microwave installation 240 feet from the support area. A dish is barely visible on the lattice tower.

Instrumentation Site 8. Instrumentation Site 8 is larger than many of the other range instrumentation sites at the SSATC. Although the site is partly obscured by clouds, items visible on the cloud-free portions of the photography include the interferometer, at least 33 buildings, an airfield, a Token radar, a possible Bar Lock radar, a microwave installation, and numerous vehicles (Figures 8 and 9). A small unidentified instrumentation site with one building and at least four vehicles is 3.4 nautical miles (nm) south of Site 8. Although no "Radar As" have been identified at this site, additional facilities may exist in the cloud-covered portions of the site.

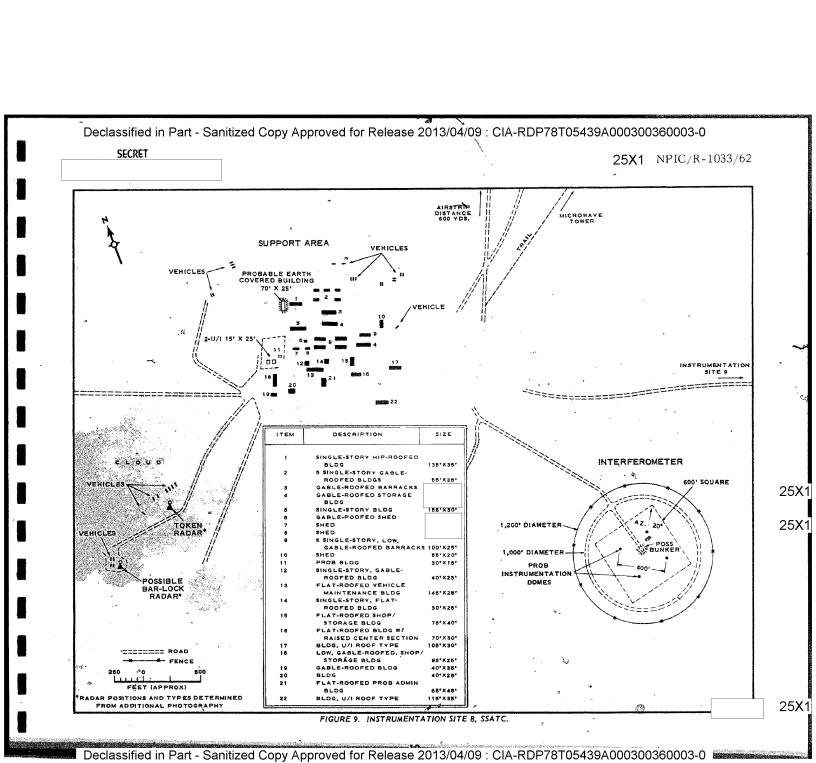
Instrumentation Site 9. Analysis of the buildings, the microwave installation, and the airfield at Instrumentation Site 9 identifies it as an interferometer site (Figures 10 and 11). Although cloud cover does not permit identification of the interferometer itself, on the basis of the location of







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other interferometers with respect to their support areas and to the impact area, it is assumed that the interferometer is south or southwest of the support area. The airstrip associated with this site has been described previously. 1/

Instrumentation Site 11. Deep shadows and cloud cover restrict interpretation of Instrumentation Site 11 (Figures 12 and 13).

Like most of the other instrumentation sites, a microwave installation is located nearby. Although the "Radar As" cannot be seen, the items that are visible appear on Figure 13.

Instrumentation Site 12. Instrumentation Site 12 is located near Launch Complex A (Figures 14 and 15). Although obliquity and cloud cover prevent detailed interpretation of much of the site, the interferometer shows little construction debris and may be complete. North of the support area is a fenced area, possibly a microwave installation, which contains a building. Adjacent to this fenced area is a regular pattern of ground scarring, the purpose of which has not been determined.

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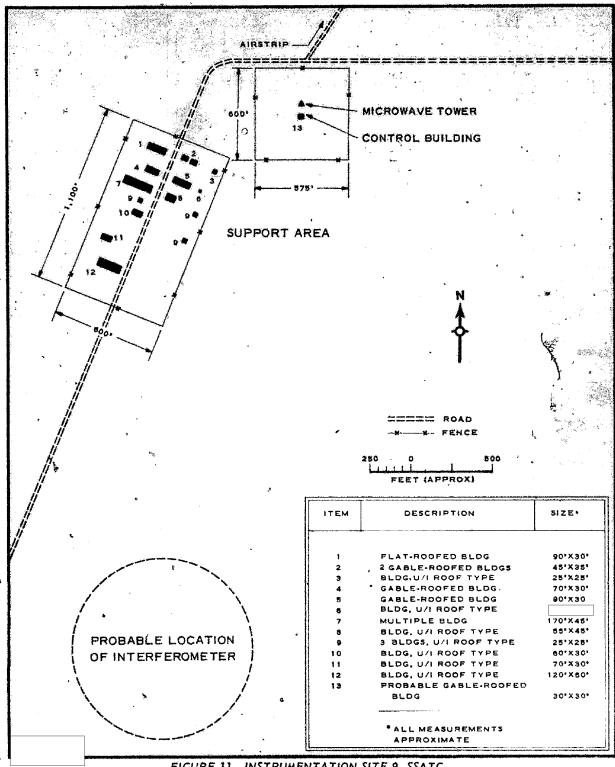


FIGURE 11. INSTRUMENTATION SITE 9, SSATC.

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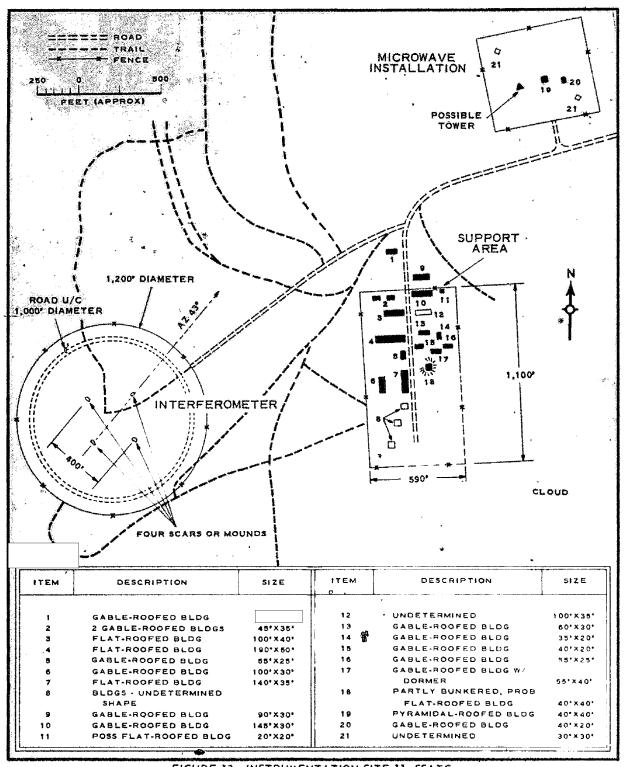
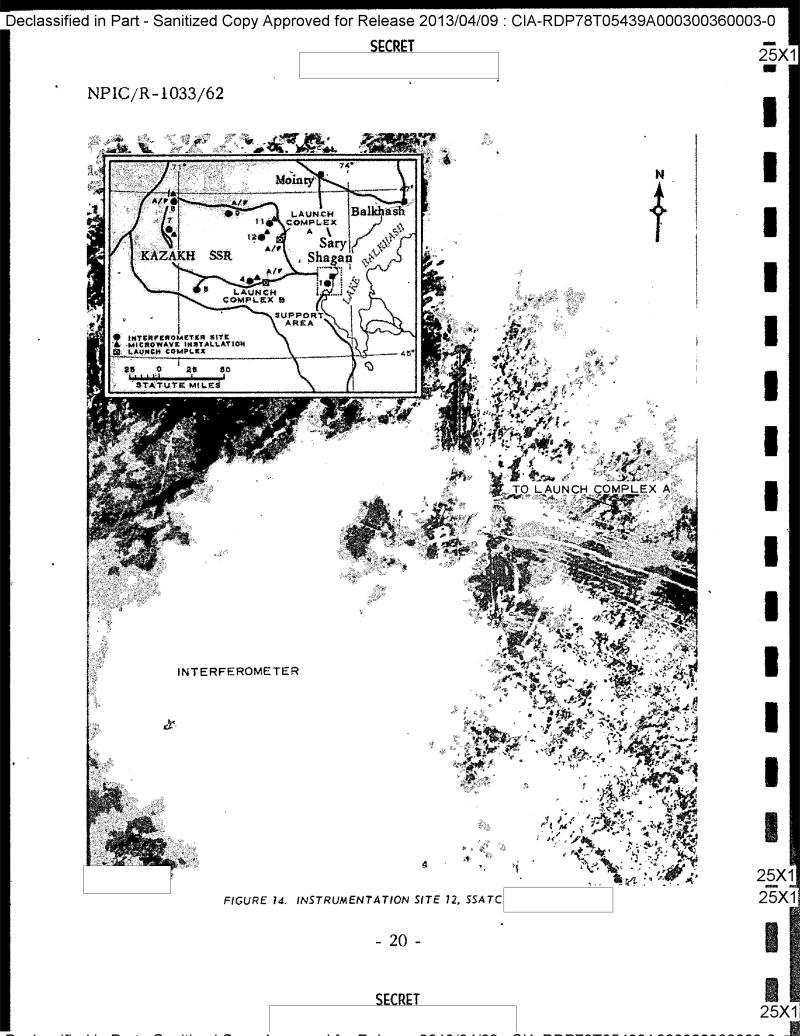


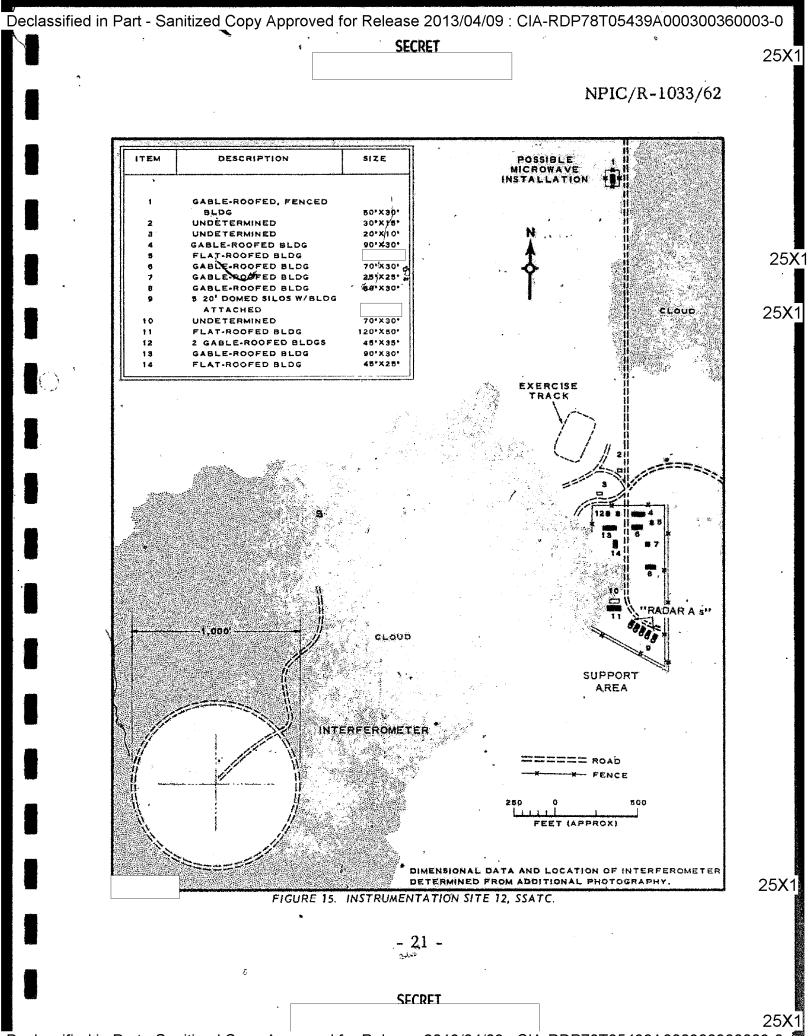
FIGURE 13. INSTRUMENTATION SITE 11, SSATC.

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KYMTR SITES

<u>Lake El'ton Site</u>. The Lake El'ton instrumentation site is approximately 55 nm northeast of the Kapustin Yar Rangehead. 2/ The circumferential road, the inner bunker, and the level ground pattern within the circular area are the only items clearly discernible at the interferometer (Figure 16).

Verkhniy Baskunchak Site. The support area of the Verkhniy Baskunchak instrumentation site (Figures 17 and 18) is quite similar to the support area of the site at Launch Complex "C", Kapustin Yar. Unlike the "Radar As" at other sites, the two at this site do not have the building attached to the silo. In contrast to the circular roads which appear to be elevated at Sites 1, 4, and 7 at the SSATC, the road encircling the interferometer appears to be below ground level. Unlike the sites at the SSATC, the support area of this site has a minimum of housing.

Launch Complex "C" Site. This possible instrumentation site has been identified by the support area, which contains a "Radar A", and by the control bunker normally found near the center of an interferometer (Figures 19 and 20). This support area is quite similar to that of the interferometer at the Tyura Tam Rangehead. No crossarms are in place, and there is no scarring to indicate that the area is being leveled or that any other construction is underway. The control bunker is under construction, indicating that it may be the first item constructed at an interferometer site.

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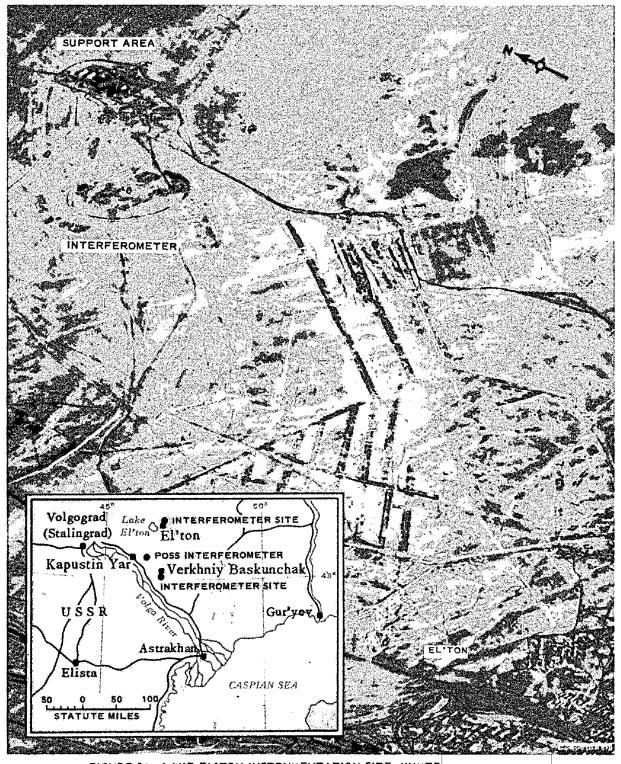


FIGURE 16. LAKE EL'TON INSTRUMENTATION SITE, KYMTR

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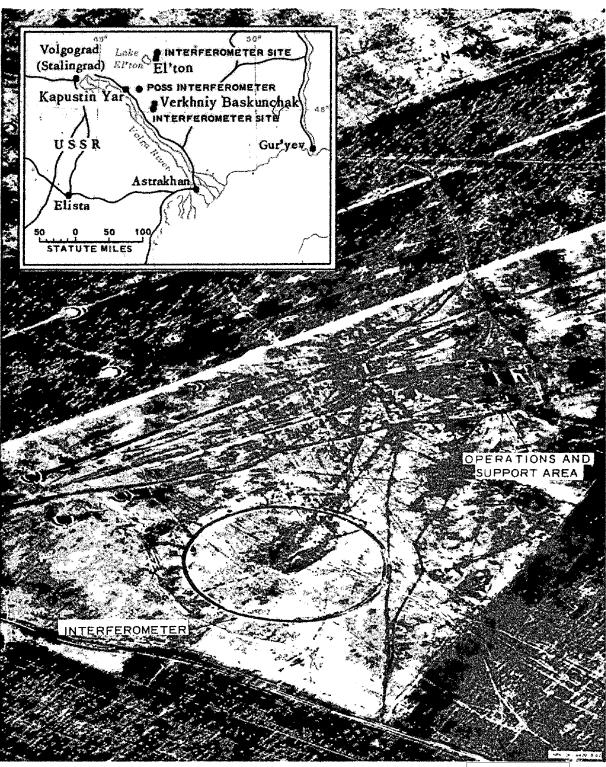
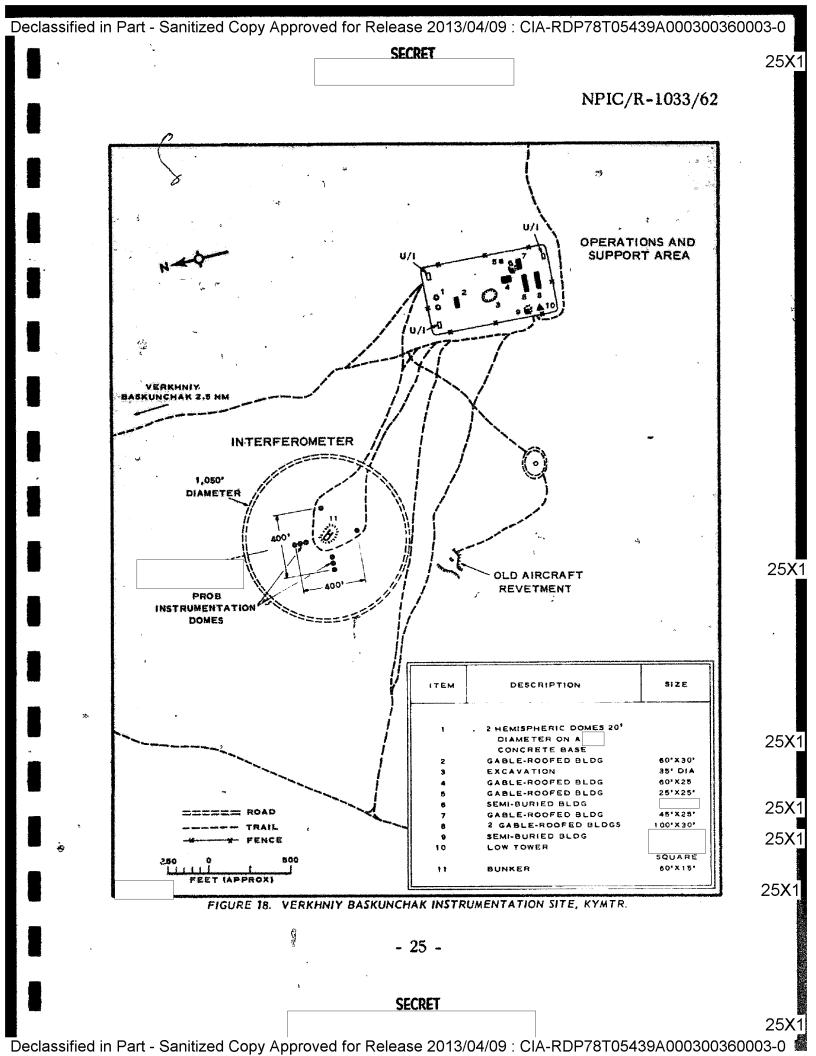


FIGURE 17. VERKHNIY BASKUNCHAK INSTRUMENTATION SITE, KYMTR

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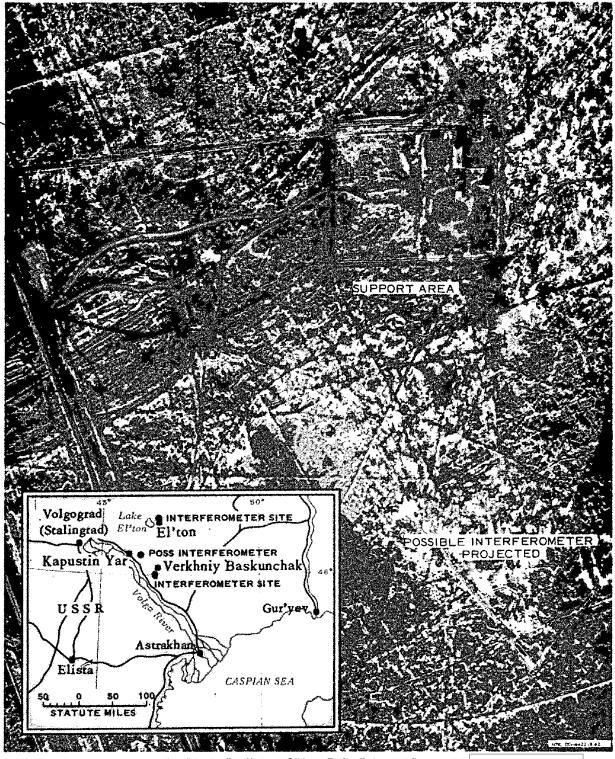


FIGURE 19. LAUNCH COMPLEX "C" INSTRUMENTATION SITE, KYMTR

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TTMTR SITES	-
Tyura Tam Rangehead Site. The interferometer at the Tyura Tam	
Rangehead, one of the older sites in the USSR, is visible on photography	ı
of excellent quality. All construction at the site apparently has been	
completed because no changes occurred in the interferometer	4
Figures 21 and 22 do not show either the circumferential	2
road or the fence found at Sary Shagan. An earth scar in diameter	2
forms the perimeter of the leveled area. The support area for this inter-	
ferometer has been designated the Instrumentation Control Center for	
Tyura Tam. $3/$ A possible function of range safety has been delegated to	
this interferometer.	
The interferometer lies between its support area and the launch pad	
at Launch Complex "A". The only correlation between the launch pad and	
the interferometer is that a line extended through and beyond the two un-	
identified towers on the launch pad would pass through the center of the	
interferometer.	
Uka Site. The Uka instrumentation site is located on the Kamchatka	
Peninsula. Major changes have occurred at this site when it	
was first observed on photography (Figures 23 and 24). 4/ Although the	
quality of the photography is poor, it reveals an expansion of the	No ange
support area to more than twice its former size and the presence of a	
dome 110 feet in diameter and of a tall lattice tower. The latter two items	
correspond, respectively, to the 110-foot dome at Instrumentation Site 6	
and to the numerous lattice towers at the SSATC.	
Yelovka Site. This instrumentation site is also located on the Kam-	
chatka Peninsula. Like the site near Uka, it is associated with terminal	,
range activity of the TTMTR. Obliquity of the photography prevents	2
determination of any changes in the site similar to those at the Uka Site.	
Like the Uka site, no circular road or leveled area are visible on the	
photography (Figures 25 and 26). As shown in Table 1, only one "Radar	
A'' is present, as at Tyura Tam and Uka.	
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KHUTOR SITE

The Khutor instrumentation site (Figures 27 and 28) more closely resembles Instrumentation Site 1 at the SSATC than any other site described in this report. First, it is comparatively isolated from known missile activity. Second, a rhombic antenna farm appears to be in the vicinity. Although no antennas can be identified, rhombic-shaped clearings in a wooded area appear similar to other rhombic antenna farms observed. A nearby KRUG site may or may not be associated with the function of the interferometer.

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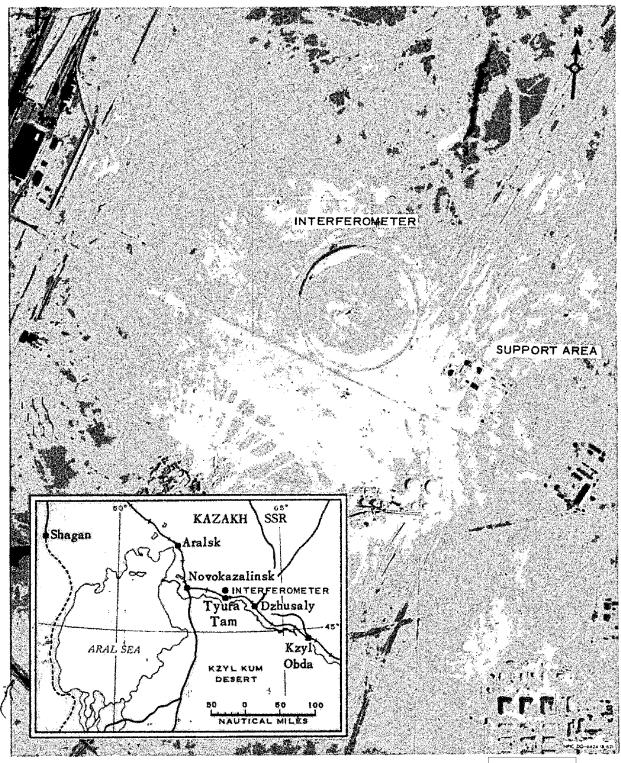
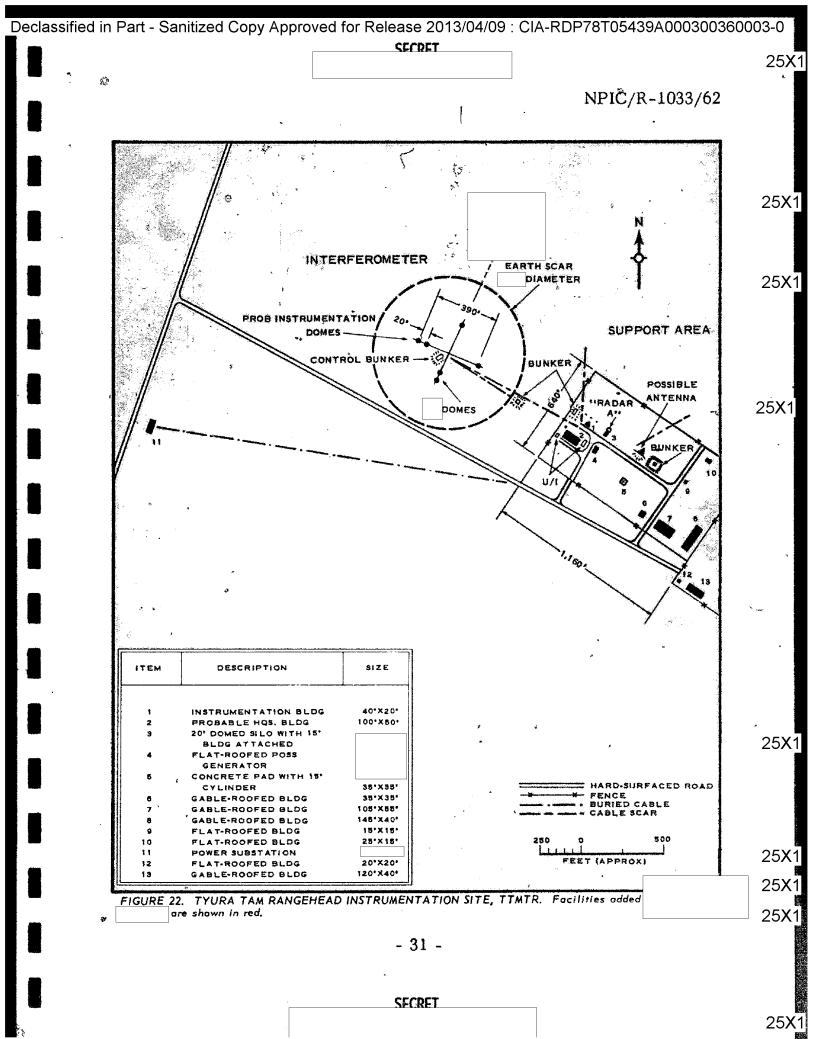


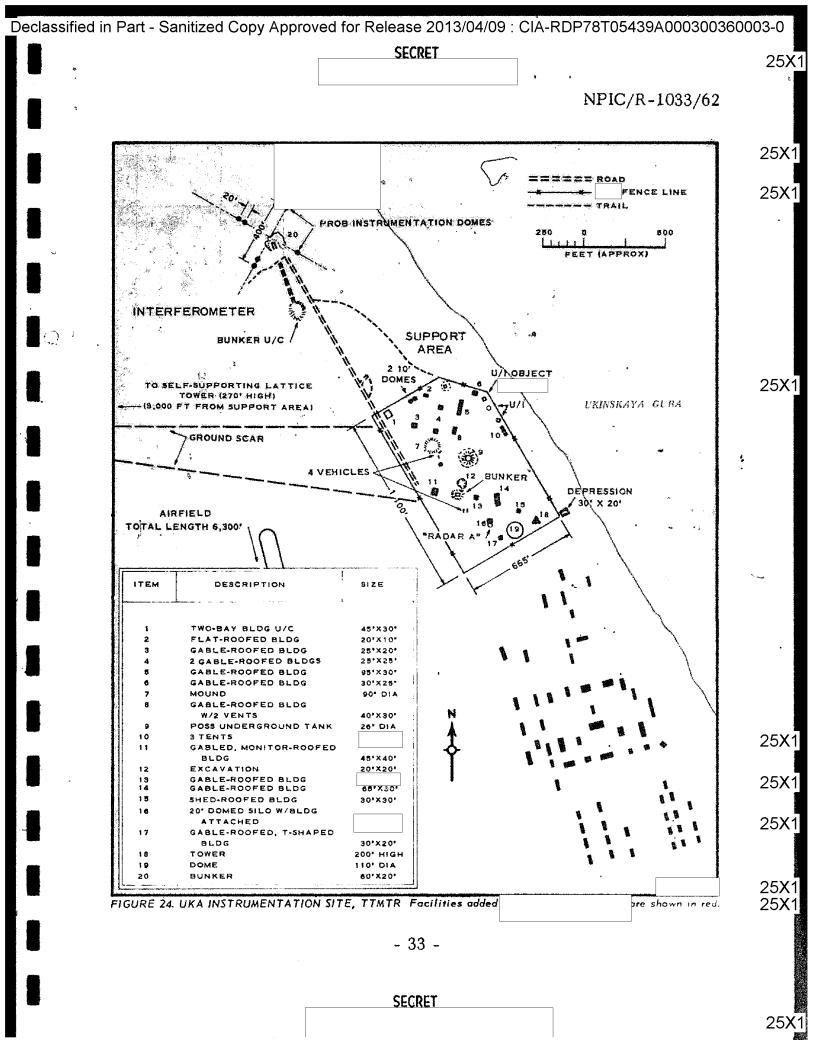
FIGURE 21. TYURA TAM RANGEHEAD INSTRUMENTATION SITE, TTMTR

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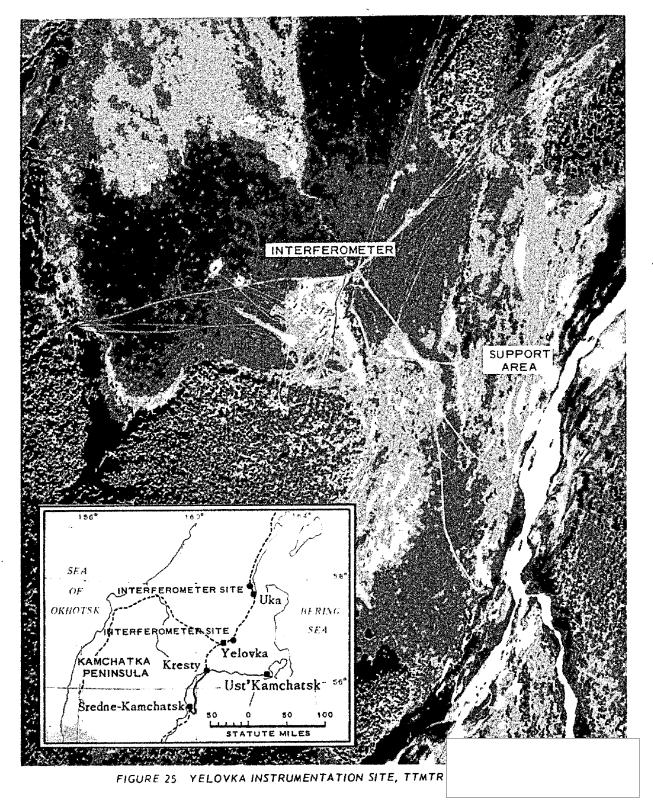
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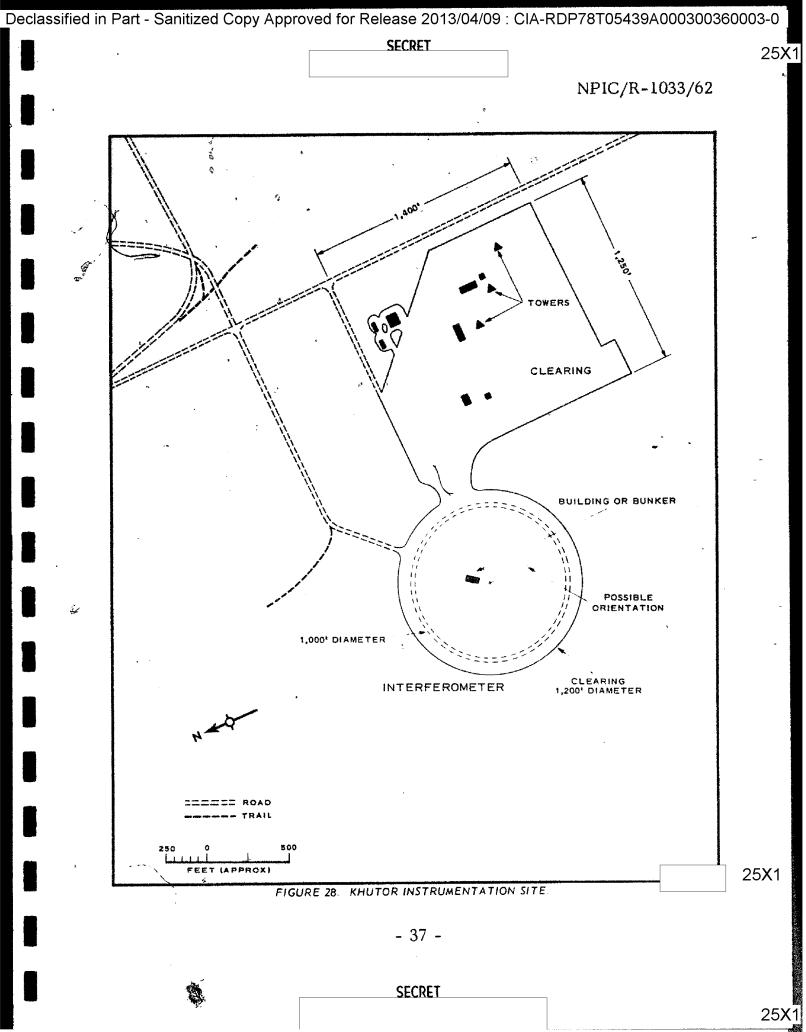
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•				TABL	E 1. COM	PARISON	OF INTERFE	ROMETERS	s, USSR		
Site	Coordinates	Overall Length of Crossams (Feet)	Dismeter of Road (Feet)	Diameter of Fence (Feet)	Number . of "Radar A s"	Orientation of Northing Crossum (Degrees)	laner Bunker	Outer Bunker	Description of Crossams	Remark <i>a</i>	
SATC		-		_						~ a	
Site 1	45-54N 73-38E	400	1,005	1,250	None	350	70 by 45 feet with ramped entrance 20 feet wide	Possible .	Crossams are situated on a level area 640 feet square. They appear complete, although no domes or instruments are visible.	Site contains four rhombic antennas criented toward Moscow and a circular pad with probable instrumentation vehicles.	
Site 4	45-56N 72-16E	See description of crosserms	960	1,100	5		Possibly com- plete, ramped entrance	Cloud covered	Crossarms consist of leveled earth. Each arm is 500 feet long and 100 feet wide. No devices can be identified.	Microwave site is under construction near the support area.	25
Site 5	45-51N 71-28E	Unkngwn	Approx. 1,000	Cleared area approx. 1,200	Unknown	Unknown	Unknown	Unknown	Cannot be identified.	No unique features can be identified because of cloud cover.	
Site 7	46-36N 70-50E	See description	1,000	1,185	3		Loder construc- tion, ramped entrance) es	May be under construction, debris throughout the area. Crossarms consist of leveled earth. Each arm is 460 feet long and 60 feet wide. No domes or devices can be identified.	Site contains a Token-type radar with associated vehicles, and a microwave installation.	2
Site 8	46-54N 70-55E	400	1,000	1,200	Unknown	Approx. ~ 20	Possible	Unknown	Four objects or scars can be seen, each 200 feet from the center, which may be the ends of the arms. Crossorms are centered on a 600-foot square, level ground pattern.	Much larger than Site 7, this site also contains a Token radar with associated vehicles, a microwave installation, and an airstrip.	
Site 9	46-50N 71-55E	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Interferometer is not visible. Site has been identified by the support area.	A microwave installation, and an airstrip are adjacent to the area.	
Site 11	46-39N 72-87E	400°	1,000	1,200	Unknown		Unknown	Unknown	Four scars or mounds can be seen, each 200 feet from the conter, which may be the ends of the arms.	A microwave installation is adjacent to the area.	2
Bite 12	46-24N 72-34E	Unknown	Approx 1,000	Unknown	, 5	Unknown	Unknown	Unknown	Cannot be identified.	A possible microwave installation and an area of ground scarring are adjacent to the area.	,
YMTR								7		•	_
Lake El'ton	49-10N 46-52E	Unknown	Under construction	None	1	Unknown		Unknown	Crossarms cannot be identified, but a level ground pattern approximately 600 feet square can be seen in the circular area.	Support area similar to that of the Uka Site	2 2
Verkhuly Baakunchak	48-12N 46-12E	400 -	1,050	None	2		Approx. 60 by 15 feet; ramped entrance	Unknown	Three domes, 25 feet apart, are on two adjacent arms; a single dome is on the other two arms.	Support area similar to that of the Uka	.2 .2
Complex "C"	48-37N 46-16E	None	None	None	1	360	Under construc- tion; ramped entrance	None	No crossarms or domes have been constructed.	Support area similar to that of the Uka Site and to the Tyura Tam Interferometer site.	2
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Tyura Tam	45-54N 63-20E	390 -	None		. 1		Completo; remped on- trance	Yes	20 feet apart, are on two adjacent arms; a single dome is on each of the other arms.	The interferometer is colocated with the instrumentation Control Center for the range and may have a function of range safety.	2
Uka	57-51N 162-50E	400	None	None	1		Complete; 60 by 20 feet; ramped entrance	Yes	Nearly identical to those at the Tyura Tam Site; length differs by 10 feet.	This site has been enlarged A 110-foot dome, a tall lattice tower, and numerous support buildings have been added.	2
Yelovka ser	56-57N 161-15E		None	None	1		Complete; 30 by 15 feet; ramped entrance	30 by 15 feet	Identical to those at the Uka and Tyura Tam Sites.	No Indication of local communications or microwave at the site.	2
KHUTOR	53-05N 158-20E	Unknown	Approx. 1,000	Clearing 1,200	Unknown	Unknown	Possible	Unknown	Cannot be identified.	A Krug site is located near the inter- ferometer. A number of rhombic clearings indicate the probability of rhombic	



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